

Preliminary Amendment

Applicant(s): Thomas KLETTKE et al.

Serial No. Unknown (Parent Serial No.: PCT/EP2003/008615)

Filed: Herewith (Parent: 4 August 2003)

For: PREPARATIONS BASED ON AZIRIDINO POLYETHERS AND THE USE THEREOF

BT01 Rec'd PCT/PTC 04 FEB 2005

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the above-identified application:

1. **(Currently Amended)** ~~A composition~~ Composition comprising at least the two components Z1 and Z2, ~~the composition comprising,~~
[[a] as]] wherein component Z1[[,]] comprises at least one polyaddition product or at least one polycondensation product having on average 2 aziridino groups or more and a molecular weight of at least 1000 [[and]],
[[b] as]] wherein component Z2[[,]] comprises at least one compound having 1 aziridino group, at least one compound according to component Z2 differing, in its chemical make-up, from at least one compound according to component Z1 in at least one further feature other than the number of the aziridino groups, the difference from component Z1 ~~consisting~~ comprising at least in one or two or more of the following further features:
 - i) number average of the molecular weight,
 - ii) weight average of the molecular weight,
 - iii) polydispersity,
 - iv) composition of the polymer backbone, and
 - v) end groups.
2. **(Currently Amended)** ~~A composition~~ Composition according to claim 1, ~~characterised in that it comprises, as~~ wherein component Z1[[,]] comprises at least one polymer selected from the group consisting of polyethers, polyesters, polyurethanes, and polydimethylsiloxanes.
3. **(Currently Amended)** ~~A composition~~ Composition according to claim 1 [[or 2]], ~~characterised in that it comprises, as~~ wherein component Z1[[,]] comprises a polyether having at least a proportion of tetrahydrofuran units.

4. **(Currently Amended)** ~~A composition~~ Composition according to ~~one of claims claim 1~~ [[to 3]], ~~characterised in that it comprises, as~~ wherein component Z2[[,]] comprises a compound selected from the group consisting of polyethers, polyesters, polyurethanes, and polydimethylsiloxanes.
5. **(Currently Amended)** ~~A composition~~ Composition according to ~~one of claims claim 1~~ [[to 4]], ~~characterised in that it comprises, as~~ wherein component Z2[[,]] comprises a compound having a molecular weight of 300 or more.
6. **(Currently Amended)** ~~A composition~~ Composition according to ~~one of claims claim 1~~ [[to 5]], further comprising ~~characterised in that it comprises~~ an additive or a mixture of two or more additives.
7. **(Currently Amended)** ~~A process~~ Process for the preparation of a composition according to ~~one of claims claim 1~~ [[to 6]], comprising mixing ~~wherein~~ two components Z1 and Z2 ~~are mixed together, there being used; wherein~~
[[a as]] component Z1[[,]] comprises at least one polyaddition product or at least one polycondensation product having on average 2 aziridino groups or more and a molecular weight of at least 1000 [[and]], wherein
[[b as]] component Z2[[,]] comprises at least one compound having 1 aziridino group, and at least one compound according to component Z2 differing, in its chemical make-up, from at least one compound according to component Z1 in at least one further feature other than the number of the aziridino groups, the difference from component Z1 comprising at least in one or two or more of the following further features:
 - i) number average of the molecular weight,
 - ii) weight average of the molecular weight,
 - iii) polydispersity,
 - iv) composition of the polymer backbone, and

v) end groups.

8. **(Currently Amended)** A dental ~~Dental~~ material comprising at least one basic component B and at least one catalyst component K, wherein basic component B ~~comprising~~ comprises at least one composition according to ~~one of claims~~ claim 1, [[to 6]] and wherein catalyst component K ~~comprising~~ comprises at least one catalyst for the cross-linking of at least part of basic component B.
9. **(Currently Amended)** A dental ~~Dental~~ material according to claim 8, wherein ~~characterised in that it has~~ after mixing of basic component B and catalyst component K at room temperature, the dental material has within a period of 20 minutes or less, a Shore A hardness of at least 80% of the value of Shore A hardness reached after 24 hours.
10. **(Currently Amended)** A method of using a dental material ~~Use of a composition~~ according to ~~one of claims 1 to 6~~ claim 8 as ~~basic component B for~~ to form coatings, impression materials, seals, or dental moulding materials.
11. **(Currently Amended)** A method of accelerating the setting rate of a dental material ~~according to claim 8, comprising using~~ Use of a compound having 1 aziridino group in ~~accelerating the setting rate of dental materials according to one of claims 8 and 9.~~
12. **(Currently Amended)** A kit ~~Kit~~ for producing dental materials, comprising ~~at least one composition according to one of claims 1 to 6~~ as basic component B and at least one catalyst component K comprising a catalyst for the cross-linking of at least part of basic component B, wherein basic component B comprises at least one component according to claim 1, and wherein the components B and K ~~being~~ are present separated from one another.

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13. **(Currently Amended)** A container or mixing device comprising ~~Containers and mixing devices containing~~ a dental material according to claim 8 [[or 9]].